BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work: Improvements to roads and drains at 10th Cross and other Cross at Manjunatha nagara ward No:14 in Bagalagunte

						Est. Cost Rs	30.00	Lakhs	
Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.141/I.19.1 PW, P & IWTD -SR 2015-16)								
		Cum	1	500.00	~~1.50~~	0.30	~~225.00~~	22500	
			1	150.00	0.45	0.40	27.00		
				650			252.00	83.16	20956.00
	Basic Rate	77.00							
	Add Area Weightage 8%	6.16							
	Total	83.16							
2	Removing B.S.Slab of drain and stacking etc., complete Page No. 25/ Item No. 5.32/ PWD SR 2015-16								
		Sqm	1	150.00	1.35		202.50		
		Consider 60% Qty					121.50		
	Basic Rate	59.00					81.00	63.72	5161.00
	Add Area Weightage 8%	4.72							
	Total	63.72							
3	KSRB 4-1.3: Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD - SR 2015-16)								
			2	150.00	0.30	0.15	13.50		
	Basic Rate	4695.00					13.50	5070.60	68453.00
	Add Area Weightage 8%	375.60							
	Total	5070.60							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.7 : Providing and laying in position **plain cement concrete** of mix 1:3:6 with OPC Cement @220 kgs with 20 mm and down size graded granite metal course aggregates @ 0.84 cum and fine aggregates @0.56 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well comated, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per , Specification NO KBS 4.1,4.2 Page No 13/ Item No 4.7/PWD SR 2015-16								
		Sqm	2	150.00	0.20	0.10	6.00		
	Basic Rate	5085.00					6.00	5491.80	32951.00
	Add Area Weightage 8%	406.80							
	Total	5491.80							
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix **M1:2:4** with cement @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.6) PW, P & IWTD - SR 2015-16)								
			2	265.00	0.20	0.15 0.10	~~15.90~~ 10.60		~~58202.00~~
	Basic Rate	5084.00					~~15.90~~ 10.60	5490.72	87302.00
	Add Area Weightage 8%	406.72							
	Total	5490.72							
6	Refixing stone slabs of drains and pointing in CM 1:3 etc complete Page No. 25/ Item No.5.33/ PWD SR 2015-16								
		Sqm	Qty Vide Iteam No 2				121.50	78.84	9579.00
	Basic Rate	73.00							
	Add Area Weightage 8%	5.84							
	Total	78.84							
7	Providing **Granite slabs** selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 25 I. 5.31.1) Page No. 25/ Item No. 5.31.1/ PWD SR 2015-16								
		Sqm	Qty vied Item No 02				202.50		
		Deduct Availabe Qty Vide Iteam No 2					121.50		
	Basic Rate	614.00					81.00	663.12	53713.00
	Add Area Weightage 8%	49.12							
	Total	663.12							
8	KSRB 5-14 : Providing and constructing **precast concrete solid blocks** with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 25/ Item No. 5.27/ PWD SR 2015-16								

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		Sqm	2	150.00	0.60		180.00		
	Basic Rate	943.00					180.00	1018.44	183319.00
	Add Area Weightage 8%	75.44							
	Total	1018.44							
9	Supplying and fixing **precast** rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.								
		Sqm	1	265.00	0.90		238.50		
			1	150.00	0.90		135.00 — ?		
	Data Rates Approved						373.50	1600.00	597600.00
10	KSRRB M400-1 For Grading I material construction of **granular sub-base** by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. 20.6.1 PWD SR 2015-16						60.00		
		Cum	1	500.00	~~1.50~~	0.10	~~75.00~~	75.00	~~87670.00~~
	Basic Rate	1353.00			~~0.20~~		~~75.00~~	1461.24	~~109593.00~~
	Add Area Weightage 8%	108.24					~~60.00~~		109593.00
	TOTAL	1461.24							
11	Providing, laying, spreading and compacting graded stone aggregates to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2015-16, P.No.154, I No.20.18)						~~120.00~~		205675.00
	Roads	Cum.	1	500.00	~~1.50~~	0.20	~~150.00~~	1713.96	~~257094.00~~
	Basic Rate	1587.00			~~0.20~~		150.00		257094.00
	Add Area Weightage 8%	126.96							
	Total	1713.96							
12	Providing and applying **primer coat** with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2015-16, P.No.157, I No.21.6)								

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		Sqm	1	500.00	1.50		750.00		24300.00
							750.00	32.40	24300.00
	Basic Rate	30.00							
	Add Area Weightage 8%	2.40							
	Total	32.40							
13	KSRRB 500-2: Cleaning the existing **black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. Specification No. KRBS 500-1 MORTH Chapter 5 **Page No. 160/ Item No. 21.2/ PWD SR 2015-16**								
		Sqm	1	500.00	5.50		2750.00		8910.00
							2750.00	3.24	8910.00
	Basic Rate	3.00							
	Add Area Weightage 8%	0.24							
	Total	3.24							
14	KSRRB 500-7: Providing and applying **tack coat on the prepared black topped** surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 160/ Item No. 21.7/ PWD SR 2009-10								
		Sqm	1	500.00	5.50		2750.00		
							2750.00	15.12	41580.00
	Basic Rate	14.00							
	Add Area Weightage 8%	1.12							
	Total	15.12							
15	Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2015-16, P.No.161, I No.21.11.6)								
		Cum	1	500.00	1.50	0.05	37.50		
	Basic Rate	5735.00					37.50	6193.80	232268.00
	Add Area Weightage 8%	458.80							
	Total	6193.80							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
16	Providing and laying **bituminous concrete** with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-164, lt 21.22.6) PWD SR 2015-16								
		Cum	1	500.00	5.50	0.045	123.75		
	Basic Rate	9095.00					123.75	9822.60	1215547.00
	Add Area Weightage 8%	727.60							
	Total	9822.60							
17	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 133 Item No. 17.1 PWD SR 2015-16								
		Cum	Qty Vide Item No. 1				252.00	84.50	21294.00
	Loading and Unloading	68.00							
	Lead 4 KMs	10.24							
		78.24							
	Area Weightage @ 8%	6.26							
	Total	84.50							
18	Quality control Test Charges 1%						L.S		30000.00
19	Miscellaneous and UnforessenCharges						L.S.	29480.00	~~29480.00~~ 380.00
								Total	3000000.00

(Rupees.Thirty Lakhs Only)

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW.P & IWTD -SR-2015-16
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer
Ward-14

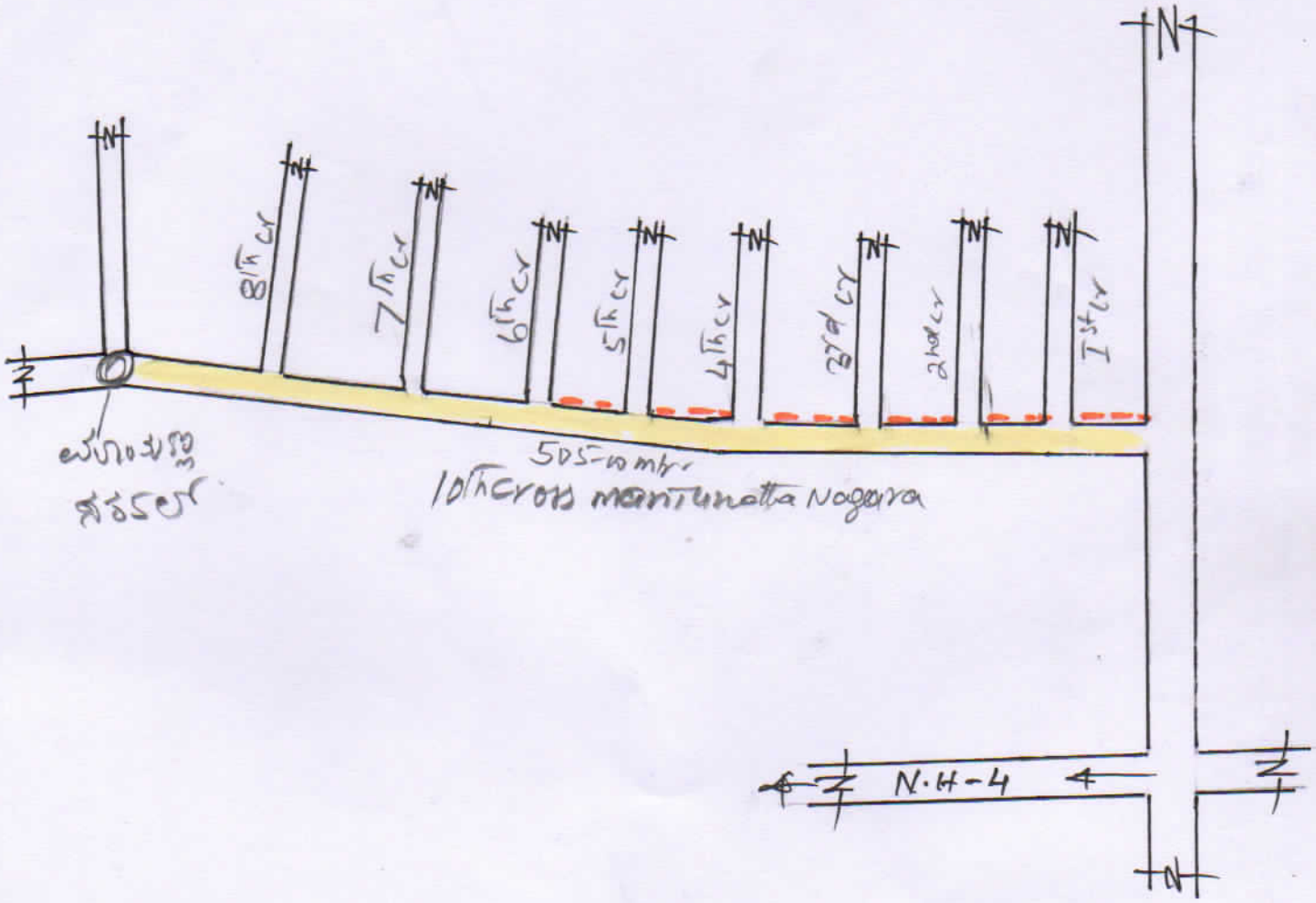
Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

ನಂ. CE/02/AE/PQ/66/03/16-17 ದಿನಾಂಕ : 28-04-2016.
ರೂ. 3000000/- ರೂ. ಮೂವತ್ತು ಲಕ್ಷಗಳು
.....ಗಳ
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

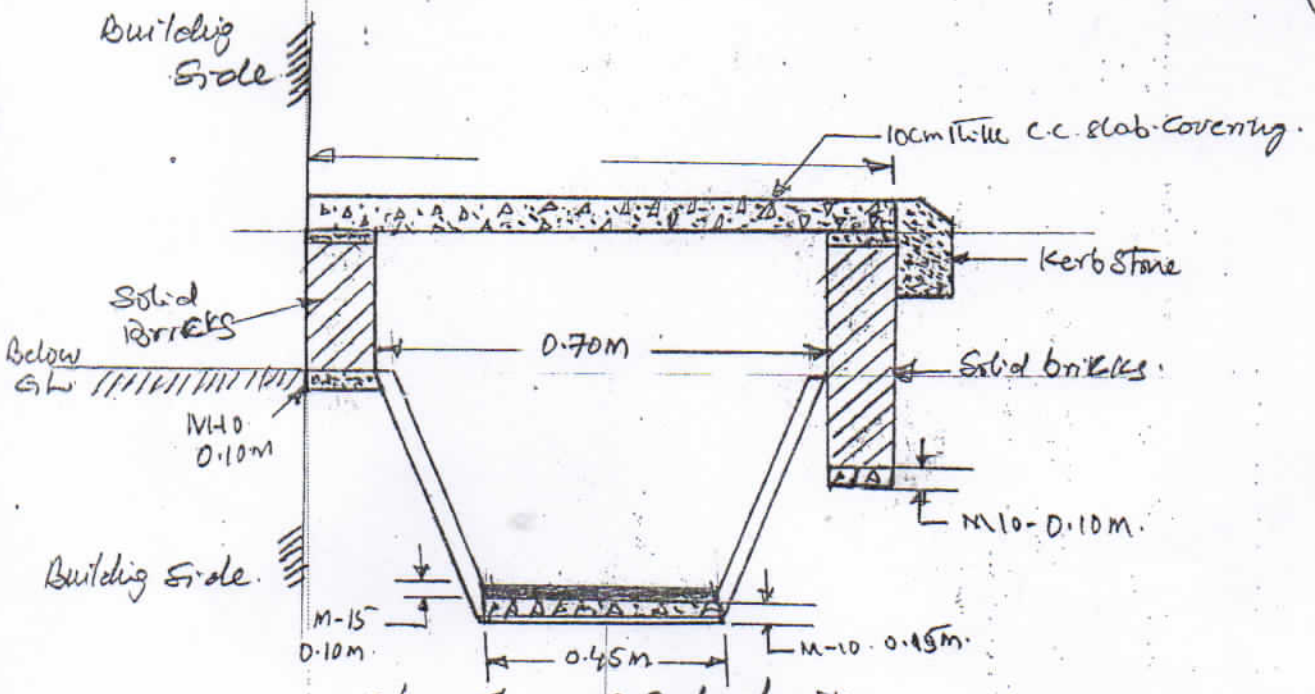
ನಂ. CE/02/TC/PQ/113/11/16-17 ದಿನಾಂಕ : 28-04-2016.
ರೂ. 3000000/- ರೂ. ಮೂವತ್ತು ಲಕ್ಷಗಳು
.....
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Name of work :- Improvement to roads & drains at 10th cross and other cross roads at Manjunatha nagara Ward No 14. Bagalagunte



ಸಹಾಯಕ ಎಂಜಿನಿಯರ್ ಕಛೇರಿ
ಟಿ.ದಾಸರಹಳ್ಳಿ, ಕಾಸ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Name of work:- Improvement to roads and drains at 10th Cross & other Cross at Manjunatha Layout W. No 14, Bagalgunte



C/s. of proposed drain.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು